

What is claimed is:

1. A projection lens system that projects projected light from a light modulator to a screen, comprising in order from a screen  
5 side:

a first lens group with a negative refractive power;

a second lens group with a positive refractive power; and

a third lens group with a positive refractive power  
including at least two cemented lenses and a lens with a positive  
10 refractive power positioned on an opposite side of the cemented  
lenses to the screen.

2. A projection lens system according to Claim 1,  
wherein a first lens positioned closest to the screen in the  
15 first lens group is an aspherical lens.

3. A projection lens system according to Claim 2,  
wherein a focal length  $f$  of the projection lens system and  
a focal length  $f_{L11}$  of the first lens satisfy the following condition  
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$$0 < |f/f_{L11}| < 0.1.$$

4. A projection lens system according to Claim 2,  
wherein a focal length  $f$  of the projection lens system, a  
focal length  $f_1$  of the first lens group, a focal length  $f_2$  of the  
25 second lens group, and a focal length  $f_3$  of the third lens group  
satisfy the following conditions

$$0.5 < |f_1/f| < 1.5,$$

$$1.0 < |f_2/f| < 4.2, \text{ and}$$

$$1.6 < |f_3/f| < 3.5.$$

5. A projection lens system according to Claim 1,  
wherein aside from cemented surfaces, a radius of curvature R of each lens composing the third lens group satisfies  
5 the following condition

$$0.005 < |1/R| < 0.06.$$

6. A projector comprising a projection lens system according to Claim 1 and the light modulator.